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EXAMINER

WOZNIAK, JAMES S

ART UNIT	PAPER NUMBER
2655	

DATE MAILED: 06/24/2005

Please find below and/or attached an Office communication concerning this application or proceeding.

# Office Action Summary

Application No.

09/832,645

Applicant(s)

SATOH, KOUICHI

Examiner

James S. Wozniak

Art Unit

2655

-- The MAILING DATE of this communication appears on the cover sheet with the correspondence address --

## Period for Reply

A SHORTENED STATUTORY PERIOD FOR REPLY IS SET TO EXPIRE 3 MONTH(S) FROM THE MAILING DATE OF THIS COMMUNICATION.

- Extensions of time may be available under the provisions of 37 CFR 1.136(a). In no event, however, may a reply be timely filed after SIX (6) MONTHS from the mailing date of this communication.
- If the period for reply specified above is less than thirty (30) days, a reply within the statutory minimum of thirty (30) days will be considered timely.
- If NO period for reply is specified above, the maximum statutory period will apply and will expire SIX (6) MONTHS from the mailing date of this communication.
- Failure to reply within the set or extended period for reply will, by statute, cause the application to become ABANDONED (35 U.S.C. § 133). Any reply received by the Office later than three months after the mailing date of this communication, even if timely filed, may reduce any earned patent term adjustment. See 37 CFR 1.704(b).

## Status

- 1) ☒ Responsive to communication(s) filed on 23 March 2005.
- 2a) ☐ This action is **FINAL**. 2b) ☒ This action is non-final.
- 3) ☐ Since this application is in condition for allowance except for formal matters, prosecution as to the merits is closed in accordance with the practice under *Ex parte Quayle*, 1935 C.D. 11, 453 O.G. 213.

## Disposition of Claims

- 4) ☒ Claim(s) 1-26 is/are pending in the application.
- 4a) Of the above claim(s) \_\_\_\_\_ is/are withdrawn from consideration.
- 5) ☐ Claim(s) \_\_\_\_\_ is/are allowed.
- 6) ☒ Claim(s) 1-26 is/are rejected.
- 7) ☐ Claim(s) \_\_\_\_\_ is/are objected to.
- 8) ☐ Claim(s) \_\_\_\_\_ are subject to restriction and/or election requirement.

## Application Papers

- 9) ☐ The specification is objected to by the Examiner.
- 10) ☒ The drawing(s) filed on 11 April 2001 is/are: a) ☒ accepted or b) ☐ objected to by the Examiner.  
Applicant may not request that any objection to the drawing(s) be held in abeyance. See 37 CFR 1.85(a).  
Replacement drawing sheet(s) including the correction is required if the drawing(s) is objected to. See 37 CFR 1.121(d).
- 11) ☐ The oath or declaration is objected to by the Examiner. Note the attached Office Action or form PTO-152.

## Priority under 35 U.S.C. § 119

- 12) ☒ Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f).
- a) ☒ All b) ☐ Some \* c) ☐ None of:
1. ☒ Certified copies of the priority documents have been received.
2. ☐ Certified copies of the priority documents have been received in Application No. \_\_\_\_\_.
3. ☐ Copies of the certified copies of the priority documents have been received in this National Stage application from the International Bureau (PCT Rule 17.2(a)).

\* See the attached detailed Office action for a list of the certified copies not received.

## Attachment(s)

- 1) ☒ Notice of References Cited (PTO-892)
- 2) ☐ Notice of Draftsperson's Patent Drawing Review (PTO-948)
- 3) ☐ Information Disclosure Statement(s) (PTO-1449 or PTO/SB/08)  
Paper No(s)/Mail Date \_\_\_\_\_.
- 4) ☐ Interview Summary (PTO-413)  
Paper No(s)/Mail Date. \_\_\_\_\_.
- 5) ☐ Notice of Informal Patent Application (PTO-152)
- 6) ☐ Other: \_\_\_\_\_.

## DETAILED ACTION

### *Response to Amendment*

1. In response to the office action from 2/28/2005, the applicant has submitted an amendment, filed 3/23/2005, amending claims 1, 4, 6, 8-10, 12-14, 20-21, and 24, while arguing to traverse the art rejection based on the limitation regarding an image recognition means for determining the contents of a road sign image (*Amendment, Pages 11-12*). The applicant's arguments have been fully considered but are moot with respect to the new grounds of rejection in view of Van Ryzin (*U.S. Patent: 5,844,505*) in view of Martino et al (*U.S. Patent: 6,061,646*).

2. Due to the translated foreign priority papers of JP 2000-114244, filed on 11/5/2004, the examiner has withdrawn the prior art rejections with relying on Ito (*U.S. Patent: 6,243,675*).

### *Claim Objections*

3. **Claims 8-10, 14, and 16** are objected to because of the following informalities:

In Claim 8, Line 3, Claim 9, Line 3, Claim 10, Line 3, Claim 14, Line 3, "the language" should be changed to --a language--, in order to provide proper antecedent basis.

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In Claim 8, Line 6, Claim 9, Line 6, Claim 10, Line 6, Claim 14, Line 6, Claim 16, Lines 4-5, and Claim 16, Line 7, "the contents" should be changed to --contents--, in order to provide proper antecedent basis.

Appropriate correction is required.

***Claim Rejections - 35 USC § 103***

4. The following is a quotation of 35 U.S.C. 103(a) which forms the basis for all obviousness rejections set forth in this Office action:

(a) A patent may not be obtained though the invention is not identically disclosed or described as set forth in section 102 of this title, if the differences between the subject matter sought to be patented and the prior art are such that the subject matter as a whole would have been obvious at the time the invention was made to a person having ordinary skill in the art to which said subject matter pertains. Patentability shall not be negated by the manner in which the invention was made.

5. **Claims 1-6, 9-13, 16, and 20-26** are rejected under 35 U.S.C. 103(a) as being unpatentable over Van Ryzin (*U.S. Patent: 5,844,505*) in view of Martino et al (*U.S. Patent: 6,061,646*)

With respect to **Claim 1**, Van Ryzin discloses a vehicle navigation system and method utilizing a camera for performing image recognition on road signs for display to a driver (Fig. 1, Elements 12 and 20; Col. 3, Line 9- Col. 4, Line 22).

Although Van Ryzin suggests the use of speech recognition with a vehicle navigation device (*Col. 3, Lines 36-44*), Van Ryzin does not teach performing speech recognition to identify a user language in order to format a display output in the user's language, however Martino teaches a device and method that recognizes a user's speech, makes a language determination, and then supplies requested data to a user on a display in the spoken language (*language*

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*identification, Col. 2, Lines 21-37; Col. 5, Lines 11-23; and display formatted in a spoken user language, Col. 11, Lines 15-24).*

Van Ryzin and Martino are analogous art because they are from a similar field of endeavor in information providing interface systems. Thus, it would have been obvious to a person of ordinary skill in the art, at the time of invention, to modify the teachings of Van Ryzin with the language identification means taught by Martino to implement a multilingual information providing system enabling speakers of various languages to communicate with the device (*Martino, Col. 1, Lines 36-38*).

With respect to **Claim 2**, Van Ryzin discloses:

The navigation processing means includes map-displaying means for displaying map information showing a vicinity of a vehicle (*Col. 3, Lines 48-65*).

Additionally, Martino teaches the language identification means for formatting a display output in a speaker's language as applied to claim 1.

With respect to **Claim 3**, Van Ryzin discloses:

The navigation processing means includes route-searching means for searching for a route to a destination and route-guiding means for guiding a vehicle by means of guiding speech along a route set by the route searching means (*Col. 3, Line 48- Col. 4, Line 17*).

Additionally, Martino teaches the language identification means for formatting a display or audio output in a speaker's language (*Col. 11, Lines 15-24*).

With respect to **Claim 4**, Martino further teaches identifying the speaker's language as the language having the greatest number of hits resulting from a dictionary search (*Col. 9, Lines 44-53; Col. 10, Lines 58-65*).

With respect to **Claim 5**, Martino further discloses:

A database for storing features of a speaker's language as extracted by the language determining means (*language recognition dictionaries, Col. 9, Lines 14-27*); and

The speaker's language is determined individually (*language recognition dictionaries accounting for speaker variation, Col. 9, Lines 14-43*).

With respect to **Claim 6**, Van Ryzin teaches the image recognition means, as applied to Claim 1, for outputting a captured image of a road sign on a user display, while Martino teaches the language identification means for formatting a display output in a speaker's language as applied to claim 1.

With respect to **Claim 9**, Van Ryzin discloses a vehicle navigation system and method utilizing a camera for performing image recognition on road signs for a text image display to a driver (Fig. 1, Elements 12 and 20; Col. 3, Line 9- Col. 4, Line 33). Van Ryzin further teaches the use of a microphone for receiving a speech input (*Col. 3, Lines 36-48*) and outputting guiding data in an audio format (*Col. 3, Line 66- Col. 4, Line 46*).

Although Van Ryzin suggests the use of speech recognition with a vehicle navigation device (*Col. 3, Lines 36-44*), Van Ryzin does not teach performing speech recognition to identify a user language in order to format a display output in the user's language or an identity learning unit for computing a frequency of languages, however Martino teaches a device and method that recognizes a user's speech, makes a language determination, and then supplies requested data to a user on a display in the spoken language (*language identification, Col. 2, Lines 21-37; Col. 5, Lines 11-23; and display formatted in a spoken user language, Col. 11, Lines 15-24*). Martino further teaches a language identification system that "compares each source word with all the

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common words in all Word Frequency Tables (WFTs)" (*Col. 10, Lines 30-32*) associated with different languages, updates Word Frequency Accumulators (WFAs) for each language and once the processing of the document is finished, picks the language with the highest WFA value (*Col. 11, Lines 1-4; and FIG. 2*). The WFA are stored in "storage medium" (*Column 11, Lines 14-17*) that could be a database or memory. Martino also provides a means for determining the language of a text unit (*Col. 10, Lines 19-65*).

Van Ryzin and Martino are analogous art because they are from a similar field of endeavor in information providing interface systems. Thus, it would have been obvious to a person of ordinary skill in the art, at the time of invention, to modify the teachings of Van Ryzin with the language identification means taught by Martino to implement a multilingual information providing system enabling speakers of various languages to communicate with the device (*Martino, Col. 1, Lines 36-38*).

With respect to **Claim 10**, Van Ryzin discloses a vehicle navigation system and method utilizing a camera for performing image recognition on road signs for display to a driver (*Fig. 1, Elements 12 and 20; Col. 3, Line 9- Col. 4, Line 22*). Van Ryzin further teaches the use of a microphone for receiving a speech input (*Col. 3, Lines 36-48*).

Although Van Ryzin suggests the use of speech recognition with a vehicle navigation device (*Col. 3, Lines 36-44*), Van Ryzin does not teach performing speech recognition to identify a user language in order to format a display output in the user's language or an identity learning unit for computing a frequency of languages, however Martino teaches a device and method that recognizes a user's speech, makes a language determination, and then supplies requested data to a user on a display in the spoken language (*language identification, Col. 2, Lines 21-37; Col. 5,*

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*Lines 11-23; and display formatted in a spoken user language, Col. 11, Lines 15-24).* Martino further teaches a language identification system that "compares each source word with all the common words in all Word Frequency Tables (WFTs)" (*Col. 10, Lines 30-32*) associated with different languages, updates Word Frequency Accumulators (WFAs) for each language and once the processing of the document is finished, picks the language with the highest WFA value (*Col. 11, Lines 1-4; and FIG. 2*). The WFA are stored in "storage medium" (*Column 11, Lines 14-17*) that could be a database or memory. Martino also provides a means for determining the language of a text unit (*Col. 10, Lines 19-65*).

Van Ryzin and Martino are analogous art because they are from a similar field of endeavor in information providing interface systems. Thus, it would have been obvious to a person of ordinary skill in the art, at the time of invention, to modify the teachings of Van Ryzin with the language identification means taught by Martino to implement a multilingual information providing system enabling speakers of various languages to communicate with the device (*Martino, Col. 1, Lines 36-38*).

With respect to **Claim 11**, Van Ryzin discloses outputting guiding data in an audio format (*Col. 3, Line 66- Col. 4, Line 46*).

With respect to **Claim 12**, Van Ryzin teaches the image recognition means, as applied to Claim 10, for outputting a captured image of a road sign on a user display, while Martino teaches the language identification means for formatting a display output in a speaker's language as applied to claim 10.

With respect to **Claim 13**, Van Ryzin discloses:



The guiding sign generating unit generates the guiding image without replacing the language of the character strings (*Fig. 1 and Fig. 2A-C*).

With respect to **Claim 16**, Van Ryzin discloses a vehicle navigation system and method utilizing a camera for performing image recognition on road signs for display to a driver (Fig. 1, Elements 12 and 20; Col. 3, Line 9- Col. 4, Line 22).

Although Van Ryzin suggests the use of speech recognition with a vehicle navigation device (*Col. 3, Lines 36-44*), Van Ryzin does not teach performing speech recognition to identify a user language in order to format a display output in the user's language, however Martino teaches a device and method that recognizes a user's speech, makes a language determination, and then supplies requested data to a user on a display in the spoken language (*language identification, Col. 2, Lines 21-37; Col. 5, Lines 11-23; and display formatted in a spoken user language, Col. 11, Lines 15-24*).

Van Ryzin and Martino are analogous art because they are from a similar field of endeavor in information providing interface systems. Thus, it would have been obvious to a person of ordinary skill in the art, at the time of invention, to modify the teachings of Van Ryzin with the language identification means taught by Martino to implement a multilingual information providing system enabling speakers of various languages to communicate with the device (*Martino, Col. 1, Lines 36-38*).

With respect to **Claim 20**, Van Ryzin discloses a vehicle navigation system and method utilizing a camera for performing image recognition on road signs for display to a driver (Fig. 1, Elements 12 and 20; Col. 3, Line 9- Col. 4, Line 22). Van Ryzin additionally teaches generating guiding speech for vehicle navigation (*Col. 3, Line 48- Col. 4, Line 17*).

Although Van Ryzin suggests the use of speech recognition with a vehicle navigation device (*Col. 3, Lines 36-44*), Van Ryzin does not teach performing speech recognition to identify a user language in order to format a speech output in the user's language, however Martino teaches a device and method that recognizes a user's speech, makes a language determination, and then supplies requested data to as a speech output in the user's language (*language identification, Col. 2, Lines 21-37; Col. 5, Lines 11-23; and speech formatted in a spoken user language, Col. 11, Lines 15-24*).

Van Ryzin and Martino are analogous art because they are from a similar field of endeavor in information providing interface systems. Thus, it would have been obvious to a person of ordinary skill in the art, at the time of invention, to modify the teachings of Van Ryzin with the language identification means taught by Martino to implement a multilingual speech dialogue system enabling speakers of various languages to communicate with the device (*Martino, Col. 1, Lines 36-38*).

With respect to **Claim 21**, Van Ryzin discloses a vehicle navigation system and method utilizing a camera for performing image recognition on road signs for display to a driver (Fig. 1, Elements 12 and 20; Col. 3, Line 9- Col. 4, Line 22).

Although Van Ryzin suggests the use of speech recognition with a vehicle navigation device (*Col. 3, Lines 36-44*), Van Ryzin does not teach performing speech recognition to identify a user language in order to format a display output in the user's language, however Martino teaches a device and method that recognizes a user's speech, makes a language determination, and then supplies requested data to a user on a display in the spoken language (*language*

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*identification, Col. 2, Lines 21-37; Col. 5, Lines 11-23; and display formatted in a spoken user language, Col. 11, Lines 15-24).*

Van Ryzin and Martino are analogous art because they are from a similar field of endeavor in information providing interface systems. Thus, it would have been obvious to a person of ordinary skill in the art, at the time of invention, to modify the teachings of Van Ryzin with the language identification means taught by Martino to implement a multilingual information providing system enabling speakers of various languages to communicate with the device (*Martino, Col. 1, Lines 36-38*).

With respect to **Claim 22**, Martino teaches the display as applied to Claim 21.

With respect to **Claim 23**, Martino teaches providing a speech output in the language of a user as applied to Claim 20.

With respect to **Claim 24**, Van Ryzin discloses a vehicle navigation system and method utilizing a camera for performing image recognition on road signs for display to a driver, which would output the characters of the road sign image when the language in the image match a user's language (*Fig. 1, Elements 12 and 20; Col. 3, Line 9- Col. 4, Line 22*).

Although Van Ryzin suggests the use of speech recognition with a vehicle navigation device (*Col. 3, Lines 36-44*), Van Ryzin does not teach performing speech recognition to identify a user language in order to format a display output in the user's language, however Martino teaches a device and method that recognizes a user's speech, makes a language determination, and then supplies requested data to a user on a display in the spoken language (*language identification, Col. 2, Lines 21-37; Col. 5, Lines 11-23; and display formatted in a spoken user language, Col. 11, Lines 15-24*).

Van Ryzin and Martino are analogous art because they are from a similar field of endeavor in information providing interface systems. Thus, it would have been obvious to a person of ordinary skill in the art, at the time of invention, to modify the teachings of Van Ryzin with the language identification means taught by Martino to implement a multilingual information providing system enabling speakers of various languages to communicate with the device (*Martino, Col. 1, Lines 36-38*).

With respect to **Claim 25**, Martino teaches providing a speech output in the language of a user as applied to Claim 20.

With respect to **Claim 26**, Martino teaches the display as applied to Claim 24.

6. **Claims 7-8, 14-15, and 17-19** are rejected under 35 U.S.C. 103(a) as being unpatentable over Van Ryzin in view of Martino et al, and further in view of Ashby et al (*U.S. Patent: 6,081,803*).

With respect to **Claim 7**, Van Ryzin in view of Martino teaches the navigation system capable of outputting a road sign image in the language of a user, as applied to Claim 1. Van Ryzin in view of Martino does not specifically teach a means for requesting and downloading navigation related data, however Ashby teaches a client-server environment for acquiring navigation data, where it will necessarily have the transmission means for sending and downloading information (*Col. 20, lines 18- 25*).

Van Ryzin, Martino, and Ashby are analogous art because they are from a similar field of endeavor in information providing interface systems. Thus, it would have been obvious to a person of ordinary skill in the art, at the time of invention, to modify the teachings of Van Ryzin

in view of Martino with the client-server environment taught by Ashby in order to provide the benefit of storing an increased amount of navigation data on a remote network device (*Ashby, Col. 3, Lines 5-14*), thus increasing the amount of navigation data that is accessible to a user.

With respect to **Claim 8**, Van Ryzin discloses a vehicle navigation system and method utilizing a camera for performing image recognition on road signs for display to a driver (Fig. 1, Elements 12 and 20; Col. 3, Line 9- Col. 4, Line 22). Van Ryzin further teaches the use of a microphone for receiving a speech input (*Col. 3, Lines 36-48*).

Although Van Ryzin suggests the use of speech recognition with a vehicle navigation device (*Col. 3, Lines 36-44*), Van Ryzin does not teach performing speech recognition to identify a user language in order to format a display output in the user's language or an identity learning unit for computing a frequency of languages, however Martino teaches a device and method that recognizes a user's speech, makes a language determination, and then supplies requested data to a user on a display in the spoken language (*language identification, Col. 2, Lines 21-37; Col. 5, Lines 11-23; and display formatted in a spoken user language, Col. 11, Lines 15-24*). Martino further teaches a language identification system that "compares each source word with all the common words in all Word Frequency Tables (WFTs)" (*Col. 10, Lines 30-32*) associated with different languages, updates Word Frequency Accumulators (WFAs) for each language and once the processing of the document is finished, picks the language with the highest WFA value (Col. 11, Lines 1-4; and FIG. 2). The WFA are stored in "storage medium" (Column 11, Lines 14-17) that could be a database or memory. Martino also provides a means for determining the language of a text unit (*Col. 10, Lines 19-65*).

Van Ryzin and Martino are analogous art because they are from a similar field of endeavor in information providing interface systems. Thus, it would have been obvious to a person of ordinary skill in the art, at the time of invention, to modify the teachings of Van Ryzin with the language identification means taught by Martino to implement a multilingual information providing system enabling speakers of various languages to communicate with the device (*Martino, Col. 1, Lines 36-38*).

Van Ryzin in view of Martino does not specifically teach a means for displaying a map image nor a means for reading map data from a storage medium, however As per claim 9, Ashby discloses a navigation system having language-determining means (Col. 19, Lines 6-12), a disk-reading device (CD-ROM, Col. 5, Lines 22-25), map reading device (18, FIG. 2, Col. 19, Lines 33-43), intersection guiding unit (maneuver generation function, 32, FIG. 2), display (27, FIG. 1), audio unit (29, FIG. 1), and a processor (map control unit) capable of accessing maps in memory buffer (RAM, 20, FIG. 1) and non-volatile memory (16, FIG. 1 and 30, FIG. 1).

Van Ryzin, Martino, and Ashby are analogous art because they are from a similar field of endeavor in information providing interface systems. Thus, it would have been obvious to a person of ordinary skill in the art, at the time of invention, to modify the teachings of Van Ryzin in view of Martino with the map reading means taught by Ashby in order to provide geographic map images as additional data in determining an optimum driving route (*Ashby, Col. 1, Lines 15-37; Col. 2, Line 61- Col. 3, Line 19*).

With respect to **Claim 14**, Van Ryzin discloses a vehicle navigation system and method utilizing a camera for performing image recognition on road signs for display to a driver (Fig. 1,

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Elements 12 and 20; Col. 3, Line 9- Col. 4, Line 22). Van Ryzin further teaches the use of a microphone for receiving a speech input (*Col. 3, Lines 36-48*).

Although Van Ryzin suggests the use of speech recognition with a vehicle navigation device (*Col. 3, Lines 36-44*), Van Ryzin does not teach performing speech recognition to identify a user language in order to format a display output in the user's language or an identity learning unit for computing a frequency of languages, however Martino teaches a device and method that recognizes a user's speech, makes a language determination, and then supplies requested data to a user on a display in the spoken language (*language identification, Col. 2, Lines 21-37; Col. 5, Lines 11-23; and display formatted in a spoken user language, Col. 11, Lines 15-24*). Martino further teaches a language identification system that "compares each source word with all the common words in all Word Frequency Tables (WFTs)" (*Col. 10, Lines 30-32*) associated with different languages, updates Word Frequency Accumulators (WFAs) for each language and once the processing of the document is finished, picks the language with the highest WFA value (*Col. 11, Lines 1-4; and FIG. 2*). The WFA are stored in "storage medium" (*Column 11, Lines 14-17*) that could be a database or memory. Martino also provides a means for determining the language of a text unit (*Col. 10, Lines 19-65*).

Van Ryzin and Martino are analogous art because they are from a similar field of endeavor in information providing interface systems. Thus, it would have been obvious to a person of ordinary skill in the art, at the time of invention, to modify the teachings of Van Ryzin with the language identification means taught by Martino to implement a multilingual information providing system enabling speakers of various languages to communicate with the device (*Martino, Col. 1, Lines 36-38*).

Van Ryzin in view of Martino does not specifically teach a means for displaying a map image nor a means for reading map data from a storage medium, however As per claim 9, Ashby discloses a navigation system having language-determining means (Col. 19, Lines 6-12), a disk-reading device (CD-ROM, Col. 5, Lines 22-25), map reading device (18, FIG. 2, Col. 19, Lines 33-43), intersection guiding unit (maneuver generation function, 32, FIG. 2), display (27, FIG. 1), audio unit (29, FIG. 1), and a processor (map control unit) capable of accessing maps in memory buffer (RAM, 20, FIG. 1) and non-volatile memory (16, FIG. 1 and 30, FIG. 1).

Van Ryzin, Martino, and Ashby are analogous art because they are from a similar field of endeavor in information providing interface systems. Thus, it would have been obvious to a person of ordinary skill in the art, at the time of invention, to modify the teachings of Van Ryzin in view of Martino with the map reading means taught by Ashby in order to provide geographic map images as additional data in determining an optimum driving route (*Ashby, Col. 1, Lines 15-37; Col. 2, Line 61- Col. 3, Line 19*).

With respect to **Claim 15**, Ashby further discloses language-determining means (Col. 19, lines 6-12), a map reading device (18, FIG. 2, Col. 19, Lines 33-43), and a processor (map control unit) capable of accessing maps in memory buffer (RAM, 20, FIG. 1) and non-volatile memory (16, FIG. 1 and 30, FIG. 1). Once a user chooses a specific language, maps and maneuver directions will necessarily use the chosen language (*Col. 19, Lines 35-36*). Ashby also teaches the client-server environment as applied to Claim 7.

With respect to **Claim 17**, Van Ryzin in view of Martino teaches the navigation system capable of outputting a road sign image in the language of a user, as applied to Claim 16. Van Ryzin in view of Martino does not specifically teach detecting map data in a storage medium in a



user's language, however Ashby teaches map data storage means as applied to Claim 15, and further discloses searching for map data in a user's specified language (*Col. 19, Lines 26-58*).

Van Ryzin, Martino, and Ashby are analogous art because they are from a similar field of endeavor in information providing interface systems. Thus, it would have been obvious to a person of ordinary skill in the art, at the time of invention, to modify the teachings of Van Ryzin in view of Martino with the map reading means taught by Ashby in order to provide multilingual support for geographic map images in determining an optimum driving route (*Ashby, Col. 1, Lines 15-37; Col. 2, Line 61- Col. 3, Line 19*).

With respect to **Claim 18**, Ashby further teaches returning a base language name if there is no language entry in the storage means (*Col. 19, Lines 26-58*).

With respect to **Claim 19**, Ashby further discloses language-determining means (*Col. 19, lines 6-12*), a map reading device (*18, FIG. 2, Col. 19, Lines 33-43*), and a processor (map control unit) capable of accessing maps in memory buffer (RAM, *20, FIG. 1*) and non-volatile memory (*16, FIG. 1 and 30, FIG. 1*). Once a user chooses a specific language, maps and maneuver directions will necessarily use the chosen language (*Col. 19, Lines 35-36*). Ashby also teaches the client-server environment as applied to Claim 7.

### ***Conclusion***

7. The prior art made of record and not relied upon is considered pertinent to applicant's disclosure:

Morimoto et al (U.S. Patent: 6,018,697)- teaches the use of image recognition and a camera in determining the contents of a road sign.

Teicher (*U.S. Patent Publication 2001/0032070*)- discloses a means for translating a sign into a user language.

8. Any inquiry concerning this communication or earlier communications from the examiner should be directed to James S. Wozniak whose telephone number is (571) 272-7632 and email is James.Wozniak@uspto.gov. The examiner can normally be reached on Mondays-Fridays, 8:30-4:30.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Wayne Young can be reached at (571) 272-7582. The fax/phone number for the Technology Center 2600 where this application is assigned is (703) 872-9306.

Any inquiry of a general nature or relating to the status of this application or proceeding should be directed to the technology center receptionist whose telephone number is (703) 306-0377.

W. R. YOUNG  
PRIMARY EXAMINER

James S. Wozniak  
6/21/2005